

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/110133 A1

(51) International Patent Classification⁷: **A01G 25/16**

(21) International Application Number:
PCT/KR2004/001427

(22) International Filing Date: 15 June 2004 (15.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20-2003-0018943 16 June 2003 (16.06.2003) KR

(71) Applicant and

(72) Inventor: KIM, Choon Il [KR/KR]; 556-36, Sinwol-Dong, Yangchun-Ku, Seoul 158-090 (KR).

(74) Agent: OH, Seung Keon; 4F, Dong Joo Bldg., 824-24, Yeoksam-Dong, Kangnam-Ku, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

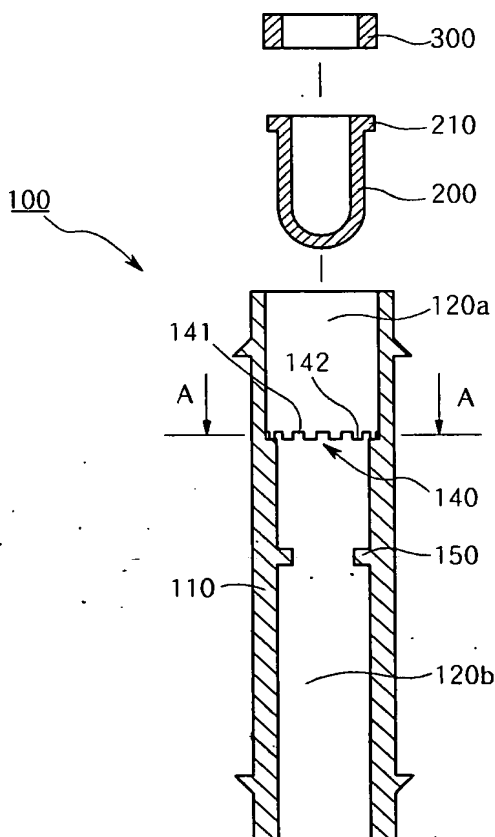
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: HYDRAULIC CONTROL VALVE FOR DRIP HOSES



(57) Abstract: The object of this invention is to provide a hydraulic control valve for drip hoses, which controls a flow of water according to a water pressure, thus keeping a pressure of water fed to a drip hose constant. The hydraulic control valve includes a hose connector (110) clamped at opposite ends thereof to a branch hose (H/S) and a drip hose (H/N), a water supply path having a larger-diameter path (120a) and a smaller-diameter path (120b), a U-shaped flexible cup (200), and a support ring (300). The larger-diameter path includes a stepped seat (142) having projections (141) and depressions (142). The smaller-diameter path includes an inward projecting step (150). The cup is placed at an end thereof to be near to the inward projecting step, and includes a flange (210). The support ring (300) is fitted into the larger-diameter path to prevent a removal of the cup.



— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.